

DGS-30-052

(Rev. 06/08)

2006 Code Version

Project Code:

Project Title:

VUSBC SPECIAL INSPECTIONS

(STATE OWNED BUILDINGS)

CO-6b

MATERIAL/ ACTIVITY	TYPE OF INSPECTION	REQ'D THIS PROJ ?	REFERENCE	INSPECTION / TEST BY *			
				A/E	OWNER'S PROJ INSP	OWNER'S TEST LAB	CONTRACTOR / SUPPLIER
FOUNDATIONS							
Soil	Classify & Test Fill Materials		Specs, 1704.7			X (Spot)	
Soil	Compaction Of Fill Materials		Specs, 1704.7			X	
Soil	Bearing At Bottom Of Footing Excavations		Specs, 1704.7			X (Spot)	
Soil / Rock	Bottom Of Caissons		1810.7			X	
Piles	Driving Records, Tip & Cutoff Elevations		1704.8	4		X	
Piles	Load Test		Specs, 1808.2.8.3	4		X	
Reinf. Bars	Size & Placement In Foundations		ACI, Specs	5	X	X (Spot)	
Piers	Size & Placement Of Reinf. Bars		1704.9, 1812.4	5	X	X (Spot)	
CONCRETE CONSTRUCTION							
Concrete	Ready-Mix Plant Quality Control		Specs, 1704.2	2			X, 1
Concrete	Mix Design Tests And Certificates		Specs, 1704.4	X			X, 1
Reinf. Steel	Shop Drawings Of Reinforcing Steel		Specs	X			
Reinf. Steel	Placement Of Reinforcing Steel		1704.4	5	X	X (Spot)	
Reinf. Steel	Welding		1704.4	2		X	X,1
Formwork	Design, Size, Placement & Shoring		1704.4		X	X (Spot)	X
Formwork	Removal And Reshoring		1704.4			X (Spot)	X
Concrete	Test Cylinders		1704.4, 1905.6	4		X	
Concrete	Mix Proportions & Mix On Delivery Tickets		1704.4		X (Spot)		
Concrete	Slump Test		1704.4	4	X	X	
Concrete	Placement Procedures		1704.4	5	X (Spot)	X	
Concrete	Curing Temperatures & Techniques		1905.11		X		
Prestressed	Prestressing Procedures & Forces		1704.4	2		X	X,1
Prestressed	Shop Drawings Of Prestressed Units		Specs	X			
Precast	Quality Control Of Manufacturer		1704.2	2			X, 1
Precast	Shop Drawings Of Precast		Specs	X			
Precast	Erection Of Precast		1704.4	5	X	X (Spot)	X
Precast	Inspection Of Connections		1704.4			X (Spot)	
Anchors	Anchors Cast In Concrete		Specs, 1911.5			X	

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MASONRY CONSTRUCTION							
Quality Assurance	Indicate Level Of Quality Assurance Required (1, 2, or N/A)		1708.1				
Clay Masonry	Certificates, Tests & Technical Data		1708.1	X			3
Concrete Masonry	Certificates, Tests & Technical Data		1708.1	X			3
Reinf. Steel	Shop Drawings		Specs	X			
Reinf. Steel	Size, Grade, Type, Location, Spacing Of Reinf Steel		1704.5			X (Spot)	
Anchors	Manufacturer's Data		1704.5	X			3
Accessories	Manufacturer's Data		Specs	X			3
Mortar & Grout	Mix Design And Data		1704.5, 1708.1	X			
Masonry Strength	Masonry Strength Verified		1708.1, 2105.2.2	2, 4		X	
Mortar & Grout	Field Samples And Testing, Placement		1704.5	4	X (Spot)	X	
Foundations	Tolerance Inspection		Specs	5	X		
Masonry	Placement Of Units, Mortar & Accessories		1704.5	5	X		
Masonry	Protection Of Masonry Work		1704.5	5	X		
Anchorage	Placement Of Devices		1704.5	5	X		
STEEL CONSTRUCTION							
Fabricator	Quality Control Inspection Of Shop		1704.2	2			X, 1
Fasteners	Mfr's Certificate Of Compliance		1704.3	X			3
Struct. Steel	Mfr's Certificate Of Compliance		1704.3	X			3
Weld Matl's	Manufacturer's Certificate Of Compliance		1704.3	X			3
Details	Shop Drawings Review		Specs	X			
Erection	Installation Of High-Strength Bolts		1704.3.3			X	
Erection	Welding		1704.3.1, 1707.2			X	
Erection	Steel Framing And Connections		1704.3.2	5	X	X (Spot)	

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ADDITIONAL SEISMIC INSPECTIONS							
(Note: SDC refers to Seismic Design Category.)							
Components	Storage Racks & Access Floors (SDC = D)		1707.6			X (Spot)	
Components	Architectural Exterior Cladding & Veneer (SDC = D)		1707.7			X (Spot)	
Components	Mechanical & Electrical - Anchorage (SDC = C)		1707.8, 1705.3			X	
Components	Suspended Ceilings-Anchorage (SDC = D)		1705.3			X (Spot)	
Components	Non-Bearing Masonry Partition Walls (SDC = D)		1707.7			X (Spot)	
SEISMIC FORCE RESISTING SYSTEMS (as required by VUSBC 1705.3 and 1707)							
Structural Steel	Welding		1707.2, 1708.4			X	
Light Gage Steel	Fastening		1707.4		X	X (Spot)	
Wood	Field Glueing		1707.3			X	
Wood	Fastening Of Seismic Force Resistance System		1707.3		X	X (Spot)	
Piers	Placement Of Reinforcing		1707.5		X	X (Spot)	
Piers	Concrete Placement		1707.5			X	
Masonry	Reinforcing Steel Test Reports		1708.2, 1708.3	2			X, 1
	(A/E add lines as needed to identify other required items)						
MAIN WINDFORCE-RESISTING SYSTEMS (as required by VUSBC 1705.4)							
Roof Diaphragm	Cladding & Framing Connections		1705.4.2		X	X (Spot)	
Diaphragm	Connections To Walls		1705.4.2		X	X (Spot)	
Diaphragm	Collectors, Struts, Boundary Elements		1705.4.2		X	X (Spot)	
Foundation	Connections To Foundation		1705.4.2		X	X (Spot)	
Vertical Elements	Shear Walls, Moment & Braced Frames		1705.4.2			X	
Glazing	Fabrication And Installation		1609.1.2	2	X	X (Spot)	X, 1
	(A/E add lines as needed to identify other required items)						

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WOOD & LIGHT GAGE STEEL CONSTRUCTION							
Fabrication	Quality Control Inspection Of Shop		1704.2	2			X, 1
Wood	Grade Stamp		Specs	5	X		
Wood/Light Gage	Fastening Per Code And Drawings		Specs, 1704.6	5	X		
Trusses	Shop Drawings		Specs	X			
Trusses	Truss Placement & Fastening And Anchorage		Specs	5	X		
Laminates	Shop Drawings		Specs	X			
Laminates	Identification Per Shop Drawings		Specs	5	X		
Plywood	Grade Stamp, Thickness & Fastening		Specs, 1704.6.1	5	X	X	
FIREPROOFING							
Spray-on	Manufacturer's Data		Specs	X			3
Spray-on	Surface Conditions		1704.10.1			X	
Spray-on	Application		1704.10.2			X	3
Spray-on	Thickness		1704.10.3			X	
Spray-on	Density		1704.10.4			X	
Spray-on	Bond Strength		1704.10.5			X	
Mastic/Intumescent	Fire-Resistant Coatings - Materials, Application		1704.11	X		X	3
GWB Fireproof	Manufacturer's Data		Specs	X			3
GWB Fireproof	Placement Of Materials		Specs		X		
Fire Wall Assembly	Manufacturer's Data		Specs, 705.2	X			3
Fire Wall Assembly	Placement Of Materials		Specs, 705.2		X		
EXTERIOR INSULATION & FINISH SYSTEMS (EIFS)							
Materials	Manufacturer's Data		Specs	X			3
Preparation	Condition Of Substrate		Specs	5	X		
Application	Methods, Proportions & Thickness Of Installation		Specs, 1704.12	5	X	X (Spot)	

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SMOKE CONTROL							
Ducts	Device Location And Air Duct Leakage		1704.14			X, 7	
System	Pressure Difference, Flow Measurements & Detection Testing		1704.14			X, 7	
Controls	Activation Sequence		1704.14			X, 7	

NOTES:

1. Fabricator, supplier, ready-mixed plant or other production plant shall provide certificates from an approved independent inspection, testing or quality assurance agency attesting that the plant meets at least one of the following criteria:
 - a. The plant is a certified production plant meeting the quality assurance standards of a recognized national standards organization for that product.
 - b. The plant maintains an agreement with an independent inspection or quality assurance agency to conduct periodic in-plant quality assurance inspections. The frequency of these inspections shall not be less than one every six months.
 - c. The plant has an in-shop quality assurance inspection program by an independent testing or quality assurance agency for the work/product to be provided on this project.
2. A/E shall review fabricator/supplier/producer certificates for conformance with appropriate standards of practice and quality assurance.
3. Contractor/supplier shall submit manufacturer's certificates of compliance for the materials/products.
4. Reviews records and test results for conformance with requirements.
5. Observes placement and erection of materials during jobsite visits.
6. Unless noted otherwise, the reference numbers listed refer to the 2006 VUSBC.
7. Special Inspection firm shall have expertise in fire protection engineering, mechanical engineering, and certification as an air balancer.